BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

Name of Work: -Improvements to Balance Roads and Drains at Kuvempunagar 1st Stage, 2nd Stage, Hosabalunagara, Valmikinagara, Singapura , Singapura Layout, Singapura Garden and surrounding areas in ward no 11(Kuvempunagara).

DETAILED COST ESTIMATE

Estimate Cost : Rs.400.00 Lakhs

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Drain Work										
1	Removing & Resetting of cover Slabs of drains and pointing in CM 1:2. (Data Rate Copy Attached)										
	Date rate			121.00							
	Total			**121.00**	Sqm						
	For Desilt										
	Kuvempunagar 2nd stage										
	Culverts			10	7.00	1.50		105.00			
	Kuvempunagar 1st stage										
	Culverts			10	6.00	1.50		90.00			
	Hosabalunagar										
	Culverts			5	5.50	1.50		41.25			
	Singapur Garden										
	4th cross road W0479	0.00	201.00	2	201.00	1.20		482.40			
	3rd cross road W0475	0.00	190.00	2	190.00	0.90		342.00			
	2nd cross road W0473	0.00	181.00	2	181.00	0.90		325.80			
	W0382	0.00	168.00	2	168.00	1.20		403.20			
	W0390	0.00	66.50	1	66.50	0.90		59.85			
	W0384	0.00	125.00	1	125.00	0.90		112.50			
	W0386	0.00	113.00	1	113.00	0.90		101.70			
	I0471	0.00	432.00	1	432.00	0.90		388.80			
	Culverts			20	6.00	1.50		180.00			
	Singapur										
	W0029	0.00	176.00	2	176.00	0.90		316.80			
		176.00	356.00	2	180.00	0.90		324.00			
		356.00	580.00	2	224.00	0.90		403.20			
	Culverts			15	9.00	1.50		202.50			
	Singapur Layout										
	1st cross W0292	0.00	146.00	2	146.00	0.90		262.80			
		146.00	278.00	2	132.00	0.90		237.60			
		278.00	355.00	2	77.00	0.90		138.60			
		355.00	485.00	2	130.00	0.90		234.00			
	1st main W0404	0.00	285.00	2	285.00	0.90		513.00			
	W0296	0.00	138.20	2	138.20	0.90		248.76			
	2nd main Tower Road W0298	0.00	202.00	2	202.00	0.90		363.60			
	W0401	0.00	35.00	1	35.00	0.90		31.50			
	4th main Road W0300	0.00	201.00	2	201.00	0.90		361.80			
	4th cross W0488	0.00	140.00	2	140.00	0.90		252.00			
	W0426	0.00	320.00	2	320.00	0.90		576.00			
	Culverts			35	6.00	1.50		315.00			
								7413.66			
	Consider 20% Missing And Broken Slabs						1482.73				
								5930.93			
							Total	**5930.93**	Sqm	**121.00**	**717643.00**

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (Volume I , Item No : 1.4.1 , Page No : 5)									
	Basic rate		186.00							
	10% AW		18.60							
	Total		**204.60**	Cum						
	Drain Desilt									
	Kuvempunagar 2nd stage									
	Culverts		10	7.00	1.00	0.60	42.00			
	Kuvempunagar 1st stage									
	Culverts		10	6.00	1.00	0.60	36.00			
	Hosabalunagar									
	Culverts		5	5.50	1.00	0.60	16.50			
	Singapur Garden									
	4th cross road W0479		2	201.00	0.90	0.60	217.08			
	3rd cross road W0475		2	190.00	0.60	0.55	125.40			
	2nd cross road W0473		2	181.00	0.60	0.45	97.74			
	W0382		2	168.00	0.90	0.50	151.20			
	W0390		1	66.50	0.60	0.50	19.95			
	W0384		2	125.00	0.60	0.45	67.50			
	W0386		2	113.00	0.60	0.45	61.02			
	I0471		2	432.00	0.60	0.45	233.28			
	Culverts		20	6.00	1.00	0.60	72.00			
	Singapur									
	W0029		2	176.00	0.60	0.60	126.72			
			2	180.00	0.60	0.55	118.80			
			2	224.00	0.60	0.45	120.96			
	Culverts		15	9.00	1.00	0.60	81.00			
	Singapur Layout									
	1st cross W0292		2	146.00	0.60	0.60	105.12			
			2	132.00	0.60	0.60	95.04			
			2	77.00	0.60	0.60	55.44			
			2	130.00	0.60	0.60	93.60			
	1st main W0404		2	285.00	0.60	0.60	205.20			
	W0296		2	138.20	0.60	0.55	91.21			
	2nd main Tower Road W0298		2	202.00	0.60	0.45	109.08			
	W0401		1	35.00	0.60	0.50	10.50			
	4th main Road W0300		2	201.00	0.60	0.55	132.66			
	W0484		2	178.00	0.30	0.60	64.08			
	4th cross W0488		2	140.00	0.60	0.45	75.60			
	W0619		1	45.00	0.30	0.50	6.75			
	W0496		2	103.00	0.30	0.60	37.08			
	W0426		2	320	0.60	0.60	230.40			
	Culverts		35	6.00	1.00	0.60	126.00			
	For New Drain		2	240.00	1.20	1.05	604.80			
						Total	**3629.71**	Cum	**204.60**	**742640.00**
3	Providing of Precast slab of 10CM thick for Drains (Data Rate Copy Attached)									
	Basic rate		2072.00							
	Total		**2072.00**	Sqm						

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Qry From Missing and Broken						1482.73			
	For New Drain									
			2	240.00	0.90		432.00			
						Total	1914.73	Sqm	2072.00	3967325.00
4	Providing of Precast slab of 23CM thick for Culverts (Data Rate Copy Attached)									
	Basic rate		5037.00							
	Total		5037.00	Sqm						
	Qry From Missing and Broken		65.00	0.60	1.50		58.50			
						Total	58.50	Sqm	5037.00	294665.00
5	Removing and resetting of kerb stones (Data Rate Copy Attached)									
	Basic rate		118.00							
	Total		118.00	Rmt						
				3000.00			3000.00			
	Considering 60% of total length						1800.00			
							1800.00			
	Consider 20% Missing And Broken Kerb					360.00				
							1440.00	Rmt	118.00	169920.00
6	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)									
	Basic rate		507.00							
	10% AW		50.70							
	Total		557.70	Nos						
	New Kerbs									
			1	360.00			360.00			
	For New Drain									
			2	240.00			480.00			
							840.00			
						Number=Length/0.45	1866.67			
							1867.00			
						Total	1867.00	Nos	557.70	1041225.90
7	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (Volume III , Item No : 8.10 , Page No : 56)									
	Basic rate		85.00							
	10% AW		8.50							
	Total		93.50	Sqm						
	New Kerbs									
			1	1800.00		0.40	720.00			
			2	240.00		0.40	192.00			
						Total	912.00	Sqm	93.50	85272.00
8	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications (Volume II , Item No : 6.33 , Page No :17)									
	Basic rate		1067.00							
	10% AW		106.70							
	Total		1173.70	Sqm						
	For Flagging coarse									
			2	600.00		0.15	180.00			
						Total	180.00	Sqm	1173.70	211266.00

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	ASPHALT ROADS									
9	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead (Volume III , Item No : 3.5 , Page No :16)									
	Basic rate		4.00							
	10% AW		0.40							
	Total		**4.40**	**Sqm**						
	For New Roads									
	W0577		1	107.00	7.00		749.00			
	Singapur Layout									
	W0397		1	82.00	4.00		328.00			
	Beside Veeranjaneya temple		1	65.00	5.70		370.50			
	Valmiki nagar									
	W0466		1	122.00	6.50		793.00			
						Total	**2240.50**	**Sqm**	**4.40**	**9859.00**
10	Earth work in surface excavation for stripping, seating of bund, Road way by manual means for lowering & levelling the ground for all works other than foundation & depth in Ordinary rock and soft rock upto 300mm depth as per drawing and technical specifications, including setting out, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (Volume I , Item No : 1.2 , Page No : 5)									
	Basic rate		452.00							
	10% AW		45.20							
	Total		**497.20**	**Cum**						
	For New Ashapalt road									
	Valmiki Nagar									
	W0577		1	107.00	7.00	0.20	149.80			
	Singapur Layout									
	W0397		1	82.00	4.00	0.20	65.60			
	Beside Veeranjaneya temple		1	65.00	5.70	0.20	74.10			
	Valmiki nagar									
	W0466		1	122.00	6.50	0.20	158.60			
	For NEW CC Road									
	Valmiki nagar									
	W0450A		1	52.47	2.90	0.20	30.43			
	Road Cut Portion									
			8	2.00	2.00	0.20	6.40			
			5	15.00	0.60	0.20	9.00			
			9	2.00	1.50	0.20	5.40			
			8	5.00	0.60	0.20	4.80			
			8	1.90	2.00	0.20	6.08			
			5	15.00	0.60	0.20	9.00			
			9	2.00	1.30	0.20	4.68			
			8	1.80	1.50	0.20	4.32			
			5	2.05	1.50	0.20	3.08			
						Total	**531.29**	**Cum**	**497.20**	**264157.00**
11	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (Volume III , Item No : 1.1A , Page No :3)									
	Basic rate		118.00							
	Loading and unloading with 15.00km lead= 2.00x1.28x15.00 = 38.40		38.40							
	Total		**156.40**							
	Area weightage 10%		15.64							
			172.04	**Cum**						
			Qty From Earthwork				531.29			
			Qty From Desilt				3629.71			
			Qty From Dismantalling of Ashpalt road				118.78			
							4279.78	**Cum**	**172.04**	**736294.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
12	Wet Mix Macadam (Plant mix method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (Volume III , Item No : 4.27 , Page No : 24)										
	Basic rate			2394.00							
	10% AW			239.40							
	Total			**2633.40**	**Cum**						
	Valmiki Nagar										
	W0577			1	107.00	7.00	0.20	149.80			
	Singapur Layout										
	W0397			1	82.00	4.00	0.20	65.60			
	Beside Veeranjaneya temple			1	65.00	5.70	0.20	74.10			
	Valmiki nagar										
	W0466			1	122.00	6.50	0.20	158.60			
	Road Cut Portion										
				8	2.00	2.00	0.20	6.40			
				5	15.00	0.60	0.20	9.00			
				9	2.00	1.50	0.20	5.40			
				8	5.00	0.60	0.20	4.80			
				8	1.90	2.00	0.20	6.08			
				5	15.00	0.60	0.20	9.00			
				9	2.00	1.30	0.20	4.68			
				8	1.80	1.50	0.20	4.32			
				5	2.05	1.50	0.20	3.08			
							Total	**500.86**	**Cum**	**2633.40**	**1318952.00**
13	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Prime Coat over WMM/WBM (Volume III , Item No : 5.1 , Page No :29)										
	Basic rate			44.00							
	10% AW			4.40							
	Total			**48.40**	**Sqm**						
	Valmiki Nagar										
	W0577			1	107.00	7.00		749.00			
	Singapur Layout										
	W0397			1	82.00	4.00		328.00			
	Beside Veeranjaneya temple			1	65.00	5.70		370.50			
	Valmiki nagar										
	W0466			1	122.00	6.50		793.00			
	Road Cut Portion										
				8	2.00	2.00		32.00			
				5	15.00	0.60		45.00			
				9	2.00	1.50		27.00			
				8	5.00	0.60		24.00			
				8	1.90	2.00		30.40			
				5	15.00	0.60		45.00			
				9	2.00	1.30		23.40			
				8	1.80	1.50		21.60			
				5	2.05	1.50		15.38			
							Total	**2504.28**	**Sqm**	**48.40**	**121207.00**
14	Tack coat on Bituminous surface Providing and applying tack coat with VG - 10 Bitumen using pressure distributor at the rate of 0.20 kg/sqm on the prepared bituminous surface cleaned with mechanical broom (voulme III Pg no - 145 Item - 21 A)										
	Basic rate			13.00							
	10% AW			1.30							
	Total			**14.30**	**Sqm**						
	Valmiki Nagar										
	W0577			1	107.00	7.00		749.00			
	Singapur Layout										
	W0397			1	82.00	4.00		328.00			
	Beside Veeranjaneya temple			1	65.00	5.70		370.50			

MORTH – Sec 503

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Valmiki nagar										
	W0466			1	122.00	6.50		793.00			
	Profile Correction										
	Singapur Garden										
	4th cross road W0479		0.15	1	201.00	6.70		202.01			
	3rd cross road W0475		0.15	1	190.00	6.90		196.65			
	2nd cross road W0473		0.15	1	181.00	6.70		181.91			
	W0382		0.15	1	168.00	5.10		128.52			
	W0390		0.15	1	66.50	4.70		46.88			
	W0384		0.15	1	125.00	7.00		131.25			
	W0386		0.15	1	113.00	5.60		94.92			
	I0471		0.15	1	432.00	5.35		346.68			
	Singapur										
	W0029		0.15	1	176.00	9.00		237.60			
			0.15	1	180.00	9.00		243.00			
			0.15	1	224.00	9.00		302.40			
	Singapur Layout										
	1st cross W0292		0.15	1	146.00	5.20		113.88			
			0.15	1	132.00	5.20		102.96			
			0.15	1	77.00	5.20		60.06			
			0.15	1	130.00	5.20		101.40			
	1st main W0404		0.15	1	285.00	4.60		196.65			
	W0296		0.15	1	138.20	5.70		118.16			
	2nd main Tower Road W0298		0.15	1	202.00	5.40		163.62			
	W0401		0.15	1	35.00	4.00		21.00			
	4th main Road W0300		0.15	1	201.00	5.70		171.86			
	3rd main Road W0484		0.15	1	178.50	5.10		136.55			
	4th cross W0488		0.15	1	140.00	5.40		113.40			
	W0601		0.15	1	45.00	4.80		32.40			
	W0615		0.15	1	45.00	4.50		30.38			
	W0617		0.15	1	45.00	4.30		29.03			
	W0619		0.15	1	45.00	4.80		32.40			
	5th cross W0496		0.15	1	103.00	4.00		61.80			
	W0426		0.15	1	320.00	4.70		225.60			
			0.15	1	200.75	5.50		165.62			
	For BC										
	Valmiki Nagar										
	W0577			1	107.00	7.00		749.00			
	Singapur Layout										
	W0397			1	82.00	4.00		328.00			
	Beside Veeranjaneya temple			1	65.00	5.70		370.50			
	Valmiki nagar										
	W0466			1	122.00	6.50		793.00			
	Singapur Garden										
	4th cross road W0479	0.00	201.00	1	201.00	6.70		1346.70			
	3rd cross road W0475	0.00	190.00	1	190.00	6.90		1311.00			
	2nd cross road W0473	0.00	181.00	1	181.00	6.70		1212.70			
	W0382	0.00	168.00	1	168.00	5.10		856.80			
	W0390	0.00	66.50	1	66.50	4.70		312.55			
	W0384	0.00	125.00	1	125.00	7.00		875.00			
	W0386	0.00	113.00	1	113.00	5.60		632.80			
	I0471	0.00	432.00	1	432.00	5.35		2311.20			
	Singapur										
	W0029	0.00	176.00	1	176.00	9.00		1584.00			
		176.00	356.00	1	180.00	9.00		1620.00			
		356.00	580.00	1	224.00	9.00		2016.00			
	Singapur Layout										
	1st cross W0292	0.00	146.00	1	146.00	5.20		759.20			
		146.00	278.00	1	132.00	5.20		686.40			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
		278.00	355.00	1	77.00	5.20		400.40			
		355.00	485.00	1	130.00	5.20		676.00			
	1st main W0404	0.00	285.00	1	285.00	4.60		1311.00			
	W0296	0.00	138.20	1	138.20	5.70		787.74			
	2nd main Tower Road W0298	0.00	202.00	1	202.00	5.40		1090.80			
	W0401	0.00	35.00	1	35.00	4.00		140.00			
	4th main Road W0300	0.00	201.00	1	201.00	5.70		1145.70			
	3rd main Road W0484	0.00	178.50	1	178.50	5.10		910.35			
	4th cross W0488	0.00	140.00	1	140.00	5.40		756.00			
	W0601	0.00	45.00	1	45.00	4.80		216.00			
	W0615	0.00	45.00	1	45.00	4.50		202.50			
	W0617	0.00	45.00	1	45.00	4.30		193.50			
	W0619	0.00	45.00	1	45.00	4.80		216.00			
	5th cross W0496	0.00	103.00	1	103.00	4.00		412.00			
	W0426	0.00	320.00	1	320.00	4.70		1504.00			
	Cross Roads			1	200.75	5.50		1104.13			
							Total	**35060.03**	**Sqm**	**14.30**	**501359.00**
15	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-40, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (Voulme III Item No - 5.13C Pg no - 34)										
	Basic rate			10298.00							
	10% AW			1029.80							
	Total			**11327.80**	**Cum**						
	Road Cut Portion										
				8	2.00	2.00	0.05	1.60			
				5	15.00	0.60	0.05	2.25			
				9	2.00	1.50	0.05	1.35			
				8	5.00	0.60	0.05	1.20			
				8	1.90	2.00	0.05	1.52			
				5	15.00	0.60	0.05	2.25			
				9	2.00	1.30	0.05	1.17			
				8	1.80	1.50	0.05	1.08			
				5	2.05	1.50	0.05	0.77			
	Valmiki Nagar										
	W0577			1	107.00	7.00	0.05	37.45			
	Singapur Layout										
	W0397			1	82.00	4.00	0.05	16.40			
	Beside Veeranjaneya temple			1	65.00	5.70	0.05	18.53			
	Valmiki nagar										
	W0466			1	122.00	6.50	0.05	39.65			
	Profile Correction										
	Singapur Garden										
	4th cross road W0479		**0.15**	1	201.00	6.70	0.05	10.10			
	3rd cross road W0475		**0.15**	1	190.00	6.90	0.05	9.83			
	2nd cross road W0473		**0.15**	1	181.00	6.70	0.05	9.10			
	W0382		**0.15**	1	168.00	5.10	0.05	6.43			
	W0390		**0.15**	1	66.50	4.70	0.05	2.34			
	W0384		**0.15**	1	125.00	7.00	0.05	6.56			
	W0386		**0.15**	1	113.00	5.60	0.05	4.75			
	I0471		**0.15**	1	432.00	5.35	0.05	17.33			
	W0390		**0.15**	1							
	Singapur										
	W0029		**0.15**	1	176.00	9.00	0.05	11.88			
			0.15	1	180.00	9.00	0.05	12.15			
			0.15	1	224.00	9.00	0.05	15.12			
	Singapur Layout										
	1st cross W0292		**0.15**	1	146.00	5.20	0.05	5.69			
			0.15	1	132.00	5.20	0.05	5.15			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
			0.15	1	77.00	5.20	0.05	3.00			
			0.15	1	130.00	5.20	0.05	5.07			
	1st main W0404		0.15	1	285.00	4.60	0.05	9.83			
	W0296		0.15	1	138.20	5.70	0.05	5.91			
	2nd main Tower Road W0298		0.15	1	202.00	5.40	0.05	8.18			
	W0401		0.15	1	35.00	4.00	0.05	1.05			
	4th main Road W0300		0.15	1	201.00	5.70	0.05	8.59			
	3rd main Road W0484		0.15	1	178.50	5.10	0.05	6.83			
	4th cross W0488		0.15	1	140.00	5.40	0.05	5.67			
	W0601		0.15	1	45.00	4.80	0.05	1.62			
	W0615		0.15	1	45.00	4.50	0.05	1.52			
	W0617		0.15	1	45.00	4.30	0.05	1.45			
	W0619		0.15	1	45.00	4.80	0.05	1.62			
	5th cross W0496		0.15	1	103.00	4.00	0.05	3.09			
	W0426		0.15	1	320.00	4.70	0.05	11.28			
			0.15	1	200.75	5.50	0.05	8.28			
							Total	324.64	Cum	11327.80	3677483.00
16	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site,laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (Volume III , Item No : 5.16C , Page No : 36)										
	Basic rate			11531.00							
	10% AW			1153.10							
	Total			**12684.10**	Cum						
	For BC										
	Valmiki Nagar										
	W0577			1	107.00	7.00	0.04	29.96			
	Singapur Layout										
	W0397			1	82.00	4.00	0.04	13.12			
	Beside Veeranjaneya temple			1	65.00	5.70	0.04	14.82			
	Valmiki nagar										
	W0466			1	122.00	6.50	0.04	31.72			
	Singapur Garden										
	4th cross road W0479			1	201.00	6.70	0.04	53.87			
	3rd cross road W0475			1	190.00	6.90	0.04	52.44			
	2nd cross road W0473			1	181.00	6.70	0.04	48.51			
	W0382			1	168.00	5.10	0.04	34.27			
	W0390			1	66.50	4.70	0.04	12.50			
	W0384			1	125.00	7.00	0.04	35.00			
	W0386			1	113.00	5.60	0.04	25.31			
	I0471			1	432.00	5.35	0.04	92.45			
	Singapur										
	W0029			1	176.00	9.00	0.04	63.36			
				1	180.00	9.00	0.04	64.80			
				1	224.00	9.00	0.04	80.64			
	Singapur Layout										
	1st cross W0292			1	146.00	5.20	0.04	30.37			
				1	132.00	5.20	0.04	27.46			
				1	77.00	5.20	0.04	16.02			
				1	130.00	5.20	0.04	27.04			
	1st main W0404			1	285.00	4.60	0.04	52.44			
	W0296			1	138.20	5.70	0.04	31.51			
	2nd main Tower Road W0298			1	202.00	5.40	0.04	43.63			
	W0401			1	35.00	4.00	0.04	5.60			
	4th main Road W0300			1	201.00	5.70	0.04	45.83			
	3rd main Road W0484			1	178.50	5.10	0.04	36.41			
	4th cross W0488			1	140.00	5.40	0.04	30.24			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	W0601			1	45.00	4.80	0.04	8.64			
	W0615			1	45.00	4.50	0.04	8.10			
	W0617			1	45.00	4.30	0.04	7.74			
	W0619			1	45.00	4.80	0.04	8.64			
	5th cross W0496			1	103.00	4.00	0.04	16.48			
	W0426			1	320.00	4.70	0.04	60.16			
				1	200.75	5.50	0.04	44.17			
							Total	**1153.24**	**Cum**	**12684.10**	**14627794.00**
17	Road Marking with Hot Applied Thermoplastic Compound with Re flectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. (Volume III , Item No : 8.15 , Page No :59)										
	Basic rate			478.00							
	10% AW			47.80							
	Total			**525.80**	**Sqm**						
	For BC										
	Valmiki Nagar										
	W0577			2.50	107.00	0.10		26.75			
	Singapur Layout										
	W0397			2.50	82.00	0.10		20.50			
	Beside Veeranjaneya temple			2.50	65.00	0.10		16.25			
	Valmiki nagar										
	W0466			2.50	122.00	0.10		30.50			
	Singapur Garden										
	4th cross road W0479			2.50	201.00	0.10		50.25			
	3rd cross road W0475			2.50	190.00	0.10		47.50			
	2nd cross road W0473			2.50	181.00	0.10		45.25			
	W0382			2.50	168.00	0.10		42.00			
	W0390			2.50	66.50	0.10		16.63			
	W0384			2.50	125.00	0.10		31.25			
	W0386			2.50	113.00	0.10		28.25			
	I0471			2.50	432.00	0.10		108.00			
	Singapur										
	W0029			2.50	176.00	0.10		44.00			
				2.50	180.00	0.10		45.00			
				2.50	224.00	0.10		56.00			
	Singapur Layout										
	1st cross W0292			2.50	146.00	0.10		36.50			
				2.50	132.00	0.10		33.00			
				2.50	77.00	0.10		19.25			
				2.50	130.00	0.10		32.50			
	1st main W0404			2.50	285.00	0.10		71.25			
	W0296			2.50	138.20	0.10		34.55			
	2nd main Tower Road W0298			2.50	202.00	0.10		50.50			
	W0401			2.50	35.00	0.10		8.75			
	4th main Road W0300			2.50	201.00	0.10		50.25			
	3rd main Road W0484			2.50	178.50	0.10		44.63			
	4th cross W0488			2.50	140.00	0.10		35.00			
	W0601			2.50	45.00	0.10		11.25			
	W0615			2.50	45.00	0.10		11.25			
	W0617			2.50	45.00	0.10		11.25			
	W0619			2.50	45.00	0.10		11.25			
	5th cross W0496			2.50	103.00	0.10		25.75			
	W0426			2.50	320.00	0.10		80.00			
				2.5	200.75	0.10		50.19			
							Total	**1225.24**	**Sqm**	**525.80**	**644230.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
18	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (Volume I , Item No : 2.1.4 , Page No : 15)										
	Basic rate			5926.00							
	10% AW			592.60							
	Total			**6518.60**	**cum**						
	For New Drain										
				2	240.00	1.20	0.10	57.60			
	For Coping concrete										
	Bottom			2	600.00	0.20	0.10	24.00			
	Top			2	600.00	0.20	0.10	24.00			
	For Resetting of Kerbs			1	1800.00	0.20	0.075	27.00			
	For New Drain Kerbs			2	240.00	0.20	0.075	7.20			
							Total	**139.80**	**Cum**	**6518.60**	**911301.00**
19	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Volume I , Item No : 2.2.1.1 , Page No : 56)										
	Basic rate			6231.00							
	Shuttering 5%			311.55							
	Sub Total-1			6542.55							
	10% AW			654.26							
	Total			**7196.81**	**Cum**						
	For New Drain										
	For Raft										
	0.15+0.60+0.15=0.90			2	240.00	0.90	0.15	64.80			
	For Wall										
				4	240.00	0.15	0.75	108.00			
							Total	**172.80**	**Cum**	**7196.81**	**1243608.00**
20	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (Volume III , Item No : 9.3 , Page No : 71) **[Issue Rate as on 07.04.2022]**										
	Basic rate			94295.00							
	10% AW			9429.50							
	Total			**103724.50**	**Tonne**						
					Cum	**Kg/cum**		Tonne			
	Consider 60kg/cum				**172.80**	**60.00**		10.37			
							Total	**10.37**	**Tonne**	**103724.50**	**1075415.62**
	CC ROADS										
21	Dismantling of Flexible pavements and disposal of dismantled materials and stacking serviceable and unserviceable materials separately (Vol- III , Item No - 2.18 II B)										
	Basic rate			201.00							
	10% AW			20.10							
	Total			**221.10**	**Cum**						
	Asphalt to CC Road										
	Singapur Layout										
	W0290	**0.00**	**80.00**	1	80.00	3.75	0.10	30.00			
	W0405	**0.00**	**40.00**	1	40.00	3.90	0.10	15.60			
	W0409	**0.00**	**41.85**	1	41.85	3.90	0.10	16.32			
	W0599	**0.00**	**45.00**	1	50.00	3.84	0.10	19.21			
	W0399			1	55.00	3.90	0.10	21.45			
	W0381			1	45.00	3.60	0.10	16.20			
							Total	**118.78**	**Cum**	**221.10**	**26263.00**

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
22	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates(Volume I , Item No : 2.1.1 , Page No : 62)									
	Basic rate		4976.00							
	10% AW		497.60							
	Total		**5473.60**	**Cum**						
	For CC Road									
	Valmiki Nagar									
	W0450A		1	52.47	2.90	0.15	22.82			
	Singapur Layout									
	W0290		1	80.00	3.75	0.15	45.00			
	W0405		1	40.00	3.90	0.15	23.40			
	W0409		1	41.85	3.90	0.15	24.48			
	W0599		1	50.00	3.84	0.15	28.82			
	W0399		1	55.00	3.90	0.15	32.18			
	W0381		1	45.00	3.60	0.15	24.30			
						Total	**201.00**	**Cum**	**5473.60**	**1100176.00**
23	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, quipments etc., complete. as per the directions of the Engineer-in-charge of the work. (Volume III , Item No : 20.29 , Page No :138)									
	Basic rate		6837.00							
	10% AW		683.70							
	Total		**7520.70**	**Cum**						
	For CC Road									
	Valmiki Nagar									
	W0450A		1	52.47	2.90	0.15	22.82			
	Singapur Layout									
	W0290		1	80.00	3.75	0.15	45.00			
	W0405		1	40.00	3.90	0.15	23.40			
	W0409		1	41.85	3.90	0.15	24.48			
	W0599		1	50.00	3.84	0.15	28.82			
	W0399		1	55.00	3.90	0.15	32.18			
	W0381		1	45.00	3.60	0.15	24.30			
						Total	**201.00**	**Cum**	**7520.70**	**1511636.00**
									Total Construction Cost	**34999691.52**
									Add 12% GST Charges	**4199962.98**
									Add DPR and PMC Charges-2.0%	**800000.00**
									Sub Total - 2	**39999654.50**
									Miscellaneous Charges	**345.50**
									GRAND TOTAL	**40000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2022-23 , and Data Rates.

Consultants:

PREETHI CAD CONSULTING PVT LTD

Assistant Engineer
BBMP

Asst. Executive Engineer
BBMP

Executive Engineer
BBMP

Gangamma gudi, Kalathur Layout and Surrounding areas in Ward No 47 (Ravenpuragara).

DETAILED COST ESTIMATE

Estimate Cost : Rs.300.00 Lakhs

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Drain Work										
1	Removing & Resetting of cover Slabs of drains and pointing in CM 1:2. (Data Rate Copy Attached)										
	Date rate			121.00							
	Total			**121.00**	**Sqm**						
	For Desilt										
	Raghuram Layout										
	W0681	0.00	220.00	1	220.00	0.90		198.00			
	Mariyamma Block										
	W0677	0.00	280.00	2	280.00	0.90		504.00			
	W0592	0.00	55.00	2	55.00	0.75		82.50			
	W0596	0.00	50.00	1	50.00	0.90		45.00			
	W0590	0.00	55.00	2	55.00	0.75		82.50			
	W0586	0.00	60.00	2	60.00	0.75		90.00			
	W0584	0.00	45.00	2	45.00	0.75		67.50			
	W0582	0.00	60.00	2	60.00	0.75		90.00			
	Culvert			28	5.00	1.20		168.00			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614	0.00	175.00	2	175.00	0.90		315.00			
	W0763	0.00	130.00	1	130.00	0.90		117.00			
	W0755	0.00	130.00	1	130.00	0.90		117.00			
	W0751	0.00	151.00	1	151.00	0.60		90.60			
	W0749	0.00	151.00	1	151.00	0.75		113.25			
	W0743	0.00	240.00	1	240.00	0.90		216.00			
	W0767	0.00	150.00	1	150.00	0.90		135.00			
	W0747	0.00	50.00	2	50.00	0.75		75.00			
	W0757	0.00	53.00	1	53.00	0.90		47.70			
	W0723 Velanakani road	0.00	450.00	2	450.00	0.90		810.00			
	St micheal road W0757A	0.00	200.00	2	200.00	0.75		300.00			
	Culverts			52	6.00	1.50		468.00			
	W0690	0.00	75.00	2	75.00	0.60		90.00			
	W0644	0.00	125.00	2	125.00	0.75		187.50			
	Culverts			5	6.00	1.50		45.00			
								4454.55			
				Consider 20% Missing And Broken Slabs							
							890.91				
								3563.64			
							Total	**3563.64**	**Sqm**	**121.00**	**431201.00**
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (Volume I , Item No : 1.4.1 , Page No : 5)										
	Basic rate			186.00							
	10% AW			18.60							
	Total			**204.60**	**Cum**						

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Drain Desilt										
	Raghuram Layout										
	W0681			1	220.00	0.60	0.60	79.20			
	Mariyamma Block										
	W0677			2	280.00	0.60	0.45	151.20			
	W0592			2	55.00	0.45	0.55	27.23			
	W0596			1	50.00	0.60	0.50	15.00			
	W0590			2	55.00	0.45	0.50	24.75			
	W0586			2	60.00	0.45	0.45	24.30			
	W0584			2	45.00	0.45	0.45	18.23			
	W0582			2	60.00	0.45	0.52	28.08			
	Culvert			28	5.00	0.90	0.55	69.30			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614			2	175.00	0.60	0.45	94.50			
	W0763			1	130.00	0.60	0.55	42.90			
	W0755			1	130.00	0.60	0.50	39.00			
	W0751			1	151.00	0.30	0.50	22.65			
	W0749			1	151.00	0.45	0.50	33.98			
	W0743			1	240.00	0.60	0.52	74.88			
	W0767			1	150.00	0.60	0.55	49.50			
	W0747			2	50.00	0.45	0.60	27.00			
	W0753			2	50.00	0.30	0.50	15.00			
	W0725			2	120.00	0.30	0.45	32.40			
	W0726			1	53.00	0.60	0.50	15.90			
	W0723 Velanakani road			2	450.00	0.60	0.45	243.00			
	St micheal road W0757A			2	200.00	0.45	0.45	81.00			
	Culverts			52	6.00	1.20	0.50	187.20			
	W0690			2	75.00	0.30	0.55	24.75			
	W0644			2	125.00	0.45	0.50	56.25			
	Culverts			5	6.00	1.20	0.60	21.60			
							Total	**1498.79**	**Cum**	**204.60**	**306652.00**
3	Providing of Precast slab of 10CM thk for Drains (Data Rate Copy Attached)										
	Basic rate			2072.00							
	Total			**2072.00**	**Sqm**						
	Qry From Missing and Broken							890.91			
							Total	**890.91**	**Sqm**	**2072.00**	**1845966.00**
4	Providing of Precast slab of 23CM thk for Culverts (Data Rate Copy Attached)										
	Basic rate			5037.00							
	Total			**5037.00**	**Sqm**						
	Qry From Missing and Broken			60.00	1.5	0.6		54.00			
							Total	**54.00**	**Sqm**	**5037.00**	**271998.00**
5	Removing and resetting of kerb stones (Data Rate Copy Attached)										
	Basic rate			118.00							
	Total			**118.00**	**Rmt**						
		Total Length			3865.00			3865.00			
		Considering of 60% of total length						2319.00			
				Consider 20% Missing And Broken Kerb							
							463.80				
								1855.20	**Rmt**	**118.00**	**218913.60**

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
6	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)									
	Basic rate			507.00						
	10% AW			50.70						
	Total			**557.70**	**Nos**					
	New Kerbs									
			1	463.80			463.80			
				Number=Length/0.45			1030.67			
							1031.00			
						Total	**1031.00**	**Nos**	**557.70**	**574988.70**
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (Volume I , Item No : 2.1.4 , Page No : 15)									
	Basic rate			5926.00						
	10% AW			592.60						
	Total			**6518.60**	**cum**					
	For Resetting of kerb		1	2319.00	0.20	0.075	34.79			
						Total	**34.79**	**Cum**	**6518.60**	**226750.00**
8	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (Volume III , Item No : 8.10 , Page No :56)									
	Basic rate		85.00							
	10% AW		8.50							
	Total		**93.50**	**Sqm**						
	New Kerbs									
			1	2782.80		0.40	1113.12			
						Total	**1113.12**	**Sqm**	**93.50**	**104077.00**
	ASPHALT ROADS									
9	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead (Volume III , Item No : 3.5 , Page No :1)									
	Basic rate		4.00							
	10% AW		0.40							
	Total		**4.40**	**Sqm**						
	For new Ashpalt road									
	Raghuram Layout									
	W0681		1	220.00	5.50		1210.00			
	Kalattur Layout									
	W0702		1	135.00	5.90		796.50			
							2006.50	**Sqm**	**4.40**	**8828.60**

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	Earth work in surface excavation for stripping, seating of bund, Road way by manual means for lowering & levelling the ground for all works other than foundation & depth in Ordinary rock and soft rock upto 300mm depth as per drawing and technical specifications, including setting out, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (Volume I , Item No : 1.2 , Page No : 5)									
	Basic rate		452.00							
	10% AW		45.20							
	Total		**497.20**	**Cum**						
	For new Ashpalt road									
	Raghuram Layout									
	W0681		1	220.00	5.50	0.20	242.00			
	Kalattur Layout									
	W0702		1	135.00	5.90	0.20	159.30			
	For New CC road									
	Temple road		1	74.98	11.70	0.20	175.45			
	W0666		1	60.00	4.20	0.20	50.40			
	Road Cut Portion									
			6	1.20	1.20	0.20	1.73			
			2	5.00	0.60	0.20	1.20			
			3	1.60	1.50	0.20	1.44			
			5	4.00	0.60	0.20	2.40			
			6	2.00	2.00	0.20	4.80			
						Total	**638.72**	**Cum**	**497.20**	**317573.00**
11	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (Volume III , Item No : 1.1A , Page No :)									
	Basic rate		118.00							
	Loading and unloading with 15.00km lead= 2.00x1.28x15.00 = 38.40		38.40							
	Total		**156.40**							
	Area weightage 10%		15.64							
			172.04	**Cum**						
			Qty From Earthwork				638.72			
			Qty From Desilt				1498.79			
			Qty From Dismantalling of concrete				324.83			
			Qty From Dismantalling of Ashpalt road				368.56			
							2830.89	**Cum**	**172.04**	**487027.00**
12	Wet Mix Macadam (Plant mix method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (Volume III , Item No : 4.27 , Page No :)									
	Basic rate		2394.00							
	10% AW		239.40							
	Total		**2633.40**	**Cum**						
	Raghuram Layout									
	W0681		1	220.00	5.50	0.20	242.00			
	Kalattur Layout									
	W0702		1	135.00	5.90	0.20	159.30			
	Road Cut Portion									
			6	1.20	1.20	0.20	1.73			
			2	5.00	0.60	0.20	1.20			
			3	1.60	1.50	0.20	1.44			
			5	4.00	0.60	0.20	2.40			
			6	2.00	2.00	0.20	4.80			
						Total	**412.87**	**Cum**	**2633.40**	**1087247.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
13	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Prime Coat over WMM/WBM (Volume III , Item No : 5.1 , Page No :)										
	Basic rate			44.00							
	10% AW			4.40							
	Total			**48.40**	**Sqm**						
	Raghuram Layout										
	W0681			1	220.00	5.50		1210.00			
	Kalattur Layout										
	W0702			1	135.00	5.90		796.50			
	Road Cut Portion										
				6	1.20	1.20		8.64			
				2	5.00	0.60		6.00			
				3	1.60	1.50		7.20			
				5	4.00	0.60		12.00			
				6	2.00	2.00		24.00			
							Total	**2064.34**	**Sqm**	**48.40**	**99915.00**
14	Tack coat on Bituminous surface Providing and applying tack coat with VG - 10 Bitumen using pressure distributor at the rate of 0.20 kg/sqm on the prepared bituminous surface cleaned with mechanical broom (voulme III Pg no - 145 Item - 21 A										
	Basic rate			13.00							
	10% AW			1.30							
	Total			**14.30**	**Sqm**						
	Raghuram Layout										
	W0681			1	220.00	5.50		1210.00			
	Kalattur Layout										
	W0702			1	135.00	5.90		796.50			
	Profile Correction										
	Mariyamma Block										
	W0677		**0.15**	1	280.00	4.30		180.60			
	W0592		**0.15**	1	55.00	4.20		34.65			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614		**0.15**	1	175	4.20		110.25			
	W0743		**0.15**	1	240	4.20		151.20			
	W0767		**0.15**	1	150	5.50		123.75			
	W0747		**0.15**	1	50	4.40		33.00			
	W0753		**0.15**	1	50	4.50		33.75			
	W0723 Velanakani road		***0.15***	1	*450.00*	*4.00*		*270.00*			
	St micheal road W0757A		**0.15**	1	200.00	4.00		120.00			
	cross roads		**0.15**	1	197.50	5.50		162.94			
	For BC										
	Raghuram Layout										
	W0681			1	220.00	5.50		1210.00			
	Kalattur Layout										
	W0702			1	135.00	5.90		796.50			
	Mariyamma Block										
	W0677			1	280.00	4.30		1204.00			
	W0592			1	55.00	4.20		231.00			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614			1	175.00	4.20		735.00			
	W0743			1	240.00	4.20		1008.00			
	W0767			1	150.00	5.50		825.00			
	W0747			1	*50.00*	*4.40*		*220.00*			
	W0753			1	50.00	4.50		225.00			
	W0723 Velanakani road			1	450.00	4.00		1800.00			
	St micheal road W0757A			1	200.00	4.00		800.00			
	cross roads			1	197.50	5.50		1086.25			
							Total	**13367.39**	**Sqm**	**14.30**	**191154.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
15	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-40, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (Voulme III Item No - 5.13C Pg no - 34)										
	Basic rate			10298.00							
	10% AW			1029.80							
	Total			**11327.80**	**Cum**						
	Road Cut Portion										
				6	1.20	1.20	0.05	0.43			
				2	5.00	0.60	0.05	0.30			
				3	1.60	1.50	0.05	0.36			
				5	4.00	0.60	0.05	0.60			
				6	2.00	2.00	0.05	1.20			
	Raghuram Layout										
	W0681			1	220.00	5.50	0.05	60.50			
	Kalattur Layout										
	W0702			1	135.00	5.90	0.05	39.83			
	Profile Correction										
	Mariyamma Block										
	W0677		**0.15**	1	280.00	4.30	0.05	9.03			
	W0592		**0.15**	1	55.00	4.20	0.05	1.73			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614		**0.15**	1	175.00	4.20	0.05	5.51			
	W0743		**0.15**	1	240.00	4.20	0.05	7.56			
	W0767		**0.15**	1	150.00	5.50	0.05	6.19			
	W0747		**0.15**	1	50.00	4.40	0.05	1.65			
	W0753		**0.15**	1	50.00	4.50	0.05	1.69			
	W0723 Velanakani road		**0.15**	1	450.00	4.00	0.05	13.50			
	St micheal road W0757A		**0.15**	1	200.00	4.00	0.05	6.00			
	cross roads		**0.15**	1	197.50	5.50	0.05	8.15			
							Total	**164.22**	**Cum**	**11327.80**	**1860296.00**
16	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site,laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (Volume III , Item No : 5.16C , Page No : 36)										
	Basic rate			11531.00							
	10% AW			1153.10							
	Total			**12684.10**	**Cum**						
	For BC										
	Raghuram Layout										
	W0681			1	220.00	5.50	0.04	48.40			
	Kalattur Layout										
	W0702			1	135.00	5.90	0.04	31.86			
	Mariyamma Block										
	W0677			1	280.00	4.30	0.04	48.16			
	W0592			1	55.00	4.20	0.04	9.24			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614			1	175.00	4.20	0.04	29.40			
	W0743			1	240.00	4.20	0.04	40.32			
	W0767			1	150.00	5.50	0.04	33.00			
	W0747			1	50.00	4.40	0.04	8.80			
	W0753			1	50.00	4.50	0.04	9.00			
	W0723 Velanakani road			1	450.00	4.00	0.04	72.00			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	St micheal road W0757A			1	200.00	4.00	0.04	32.00			
	cross roads			1	197.50	5.50	0.04	43.45			
							Total	**405.63**	**Cum**	**12684.10**	**5145052.00**
17	Road Marking with Hot Applied Thermoplastic Compound with Re flectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. (Volume III , Item No : 8.15 , Page No : 59)										
	Basic rate			478.00							
	10% AW			47.80							
	Total			**525.80**	**Sqm**						
	For BC										
	Raghuram Layout										
	W0681			2.50	220.00	0.10		55.00			
	Kalattur Layout										
	W0702			2.50	135.00	0.10		33.75			
	Mariyamma Block										
	W0677			2.50	280.00	0.10		70.00			
	W0592			2.50	55.00	0.10		13.75			
	Gangamaguddi Gudi										
	Devappa Layout main road W0614			2.50	175.00	0.10		43.75			
	W0743			2.50	240.00	0.10		60.00			
	W0767			2.50	150.00	0.10		37.50			
	W0747			2.50	50.00	0.10		12.50			
	W0753			2.50	50.00	0.10		12.50			
	W0723 Velanakani road			2.50	450.00	0.10		112.50			
	St micheal road W0757A			2.50	200.00	0.10		50.00			
	cross roads			2.50	197.50	0.10		49.38			
							Total	**550.63**	**Sqm**	**525.80**	**289519.00**
	CC Roads										
18	Dismantling of Cement Concrete Pavement Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately (Volume III , Item No : 2.19 , Page No :10)										
	Basic rate			422.00							
	10% AW			42.20							
	Total			**464.20**	**Cum**						
	For CC Road										
	Raghuram Layout										
	W0745			1	50.00	4.50	0.20	45.00			
	Gangamma gudi										
	W0648			1	99.80	3.50	0.20	69.86			
	W0777			1	178.22	4.25	0.20	151.49			
	st michel school road W0757			1	68.00	4.30	0.20	58.48			
							Total	**324.83**	**Cum**	**464.20**	**150785.00**
19	Dismantling of Flexible pavements and disposal of dismantled materials and stacking serviceable and unserviceable materials separately Vol-3 – It No – 2.18 II 'A' Page – 10										
	Basic rate			201.00							
	10% AW			20.10							
	Total			**221.10**	**Cum**						
	Raghuram Layout										
	3rd cross road W0751			1	151.00	3.60	0.10	54.36			
	4th cross road W0749			1	151.00	2.75	0.10	41.53			
	1st cross road W0763			1	130.00	3.30	0.10	42.90			
	2nd cross road W0755			1	90.70	3.90	0.10	35.37			
	Kalattur Layout										
	W0700			1	160.00	3.60	0.10	57.60			
	Ms Palya										

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	W0158			1	240.00	5.70	0.10	136.80			
								368.56	**cum**	**221.10**	**81488.17**
20	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates(Volume I , Item No : 2.1.1 , Page No : 62)										
	Basic rate			4976.00							
	10% AW			497.60							
	Total			**5473.60**	**Cum**						
	For CC Road										
	Temple road			1	74.98	11.70	0.15	131.59			
	W0666			1	60.00	4.20	0.15	37.80			
	Raghuram Layout										
	W0745			1	50.00	4.50	0.15	33.75			
	Gangamma gudi										
	W0648			1	99.80	3.50	0.15	52.40			
	W0777			1	178.22	4.25	0.15	113.62			
	st michel school road W0757			1	68.00	4.30	0.15	43.86			
	Raghuram Layout										
	3rd cross road W0751			1	151.00	3.60	0.15	81.54			
	4th cross road W0749			1	151.00	2.75	0.15	62.29			
	1st cross road W0763			1	130.00	3.30	0.15	64.35			
	2nd cross road W0755			1	90.70	3.90	0.15	53.06			
	Kalattur Layout										
	W0700			1	160.00	3.60	0.15	86.40			
	Ms Palya										
	W0158			1	240.00	5.70	0.15	205.20			
							Total	**965.85**	**Cum**	**5473.60**	**5286661.00**
21	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, quipments etc., complete. as per the directions of the Engineer-in-charge of the work. (Volume III , Item No : 20.29 , Page No :138)										
	Basic rate			6837.00							
	10% AW			683.70							
	Total			**7520.70**	**Cum**						
	For CC Road										
	Temple road			1	74.98	11.70	0.15	131.59			
	W0666			1	60.00	4.20	0.15	37.80			
	Raghuram Layout										
	W0745			1	50.00	4.50	0.15	33.75			
	Gangamma gudi										
	W0648			1	99.80	3.50	0.15	52.40			
	W0777			1	178.22	4.25	0.15	113.62			
	st michel school road W0757			1	68.00	4.30	0.15	43.86			
	Raghuram Layout										
	3rd cross road W0751			1	151.00	3.60	0.15	81.54			
	4th cross road W0749			1	151.00	2.75	0.15	62.29			
	1st cross road W0763			1	130.00	3.30	0.15	64.35			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	2nd cross road W0755			1	90.70	3.90	0.15	53.06			
	Kalattur Layout										
	W0700			1	160.00	3.60	0.15	86.40			
	Ms Palya										
	W0158			1	240.00	5.70	0.15	205.20			
							Total	965.85	Cum	7520.70	7263847.00
										Total Construction Cost	26249939.07
										Add 12% GST Charges	3149992.69
										Add DPR and PMC Charges-2%	600000.00
										Sub Total -1	29999931.76
										Miscellaneous Charges	68.24
										GRAND TOTAL	30000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2022-23 , and Data Rates.

PREETHI CAD CONSULTING ENGINEERS PVT. LTD. BANGALORE

Consultants:

PREETHI CAD CONSULTING PVT LTD

Assistant Engineer
BBMP

Asst. Executive Engineer
BBMP

Executive Engineer
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

Name of Work: -Improvements to Balance Roads and Drains at MS Palya, Srinidhi Layout, Balaji Layout, Teachers Layout, Vadaradarajanagara, Vinayak nagara, Singapura Paradise, Ganesh Layout and Surrounding areas in ward no 11 (Kuvempunagara).

DETAILED COST ESTIMATE

Estimate Cost : Rs.300.00 Lakhs

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Drain Work										
1	Removing & Resetting of cover Slabs of drains and pointing in CM 1:2. (Data Rate Copy Attached)										
	Date rate			121.00							
	Total			**121.00**	**Sqm**						
	For Desilt										
	Varadaraj Nagar										
	W0373	0.00	25.00	1	25.00	0.75		18.75			
	Culverts			5	6.00	1.50		45.00			
	Vinayaknagara										
	W0135	0.00	59.00	2	59.00	0.75		88.50			
	W0139	0.00	82.00	2	82.00	0.90		147.60			
	W0143	0.00	65.00	2	65.00	0.75		97.50			
	Culverts			8	6.00	1.50		72.00			
	Singapura Paradise										
	W0093			2	119.00	0.90		214.20			
	W0087			2	123.00	0.90		221.40			
	W0075			2	135.00	0.90		243.00			
	W0085			2	62.00	0.75		93.00			
	W0091			2	56.00	0.75		84.00			
	W0024			2	176.00	1.20		422.40			
	W0097			2	178.00	1.20		427.20			
	Culverts			15	6.00	1.50		135.00			
	Teachers Colony										
	Culverts			5	*6.00*	*1.50*		*45.00*			
	Ganesh Layout										
	W0098	0.00	55.00	2	55.00	0.75		82.50			
	W0423	0.00	325.00	2	325.00	1.20		780.00			
	W0306	0.00	101.00	2	101.00	0.90		181.80			
	W0308	0.00	96.00	2	96.00	0.90		172.80			
	W0310	0.00	89.00	2	89.00	0.90		160.20			
	W0314	0.00	83.00	2	83.00	0.75		124.50			
	Culverts			20	6.00	1.50		180.00			
	Srinidhi Layout										
	Culverts			5	6.00	1.50		45.00			
	MS Palya										
	Culverts			6	6.00	1.50		54.00			
								4135.35			
				Consider 10% Missing And Broken Slabs							
							413.54				
								3721.82			
							Total	**3721.82**	**Sqm**	**121.00**	**450340.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.(Volume I , Item No : 1.4.1 , Page No :5)										
	Basic rate			186.00							
	10% AW			18.60							
	Total			**204.60**	**Cum**						
	Drain Desilt										
	Varadaraj Nagar										
	W0248			2	140.00	0.60	0.55	92.40			
	W0373			1	25.00	0.45	0.50	5.63			
	Culverts			5	6.00	1.20	0.60	21.60			
	Vinayaknagara										
	W0135			2	59.00	0.45	0.55	29.21			
	W0139			2	82.00	0.60	0.60	59.04			
	W0143			2	65.00	0.45	0.35	20.48			
	Culverts			8	6.00	1.20	0.60	34.56			
	Singapura Paradise										
	W0093			2	119.00	0.60	0.50	71.40			
	W0087			2	123.00	0.60	0.45	66.42			
	W0075			2	135.00	0.60	0.60	97.20			
	W0085			2	62.00	0.45	0.45	25.11			
	W0091			2	56.00	0.45	0.60	30.24			
	W0024			2	176.00	0.90	0.50	158.40			
	W0097			2	178.00	0.90	0.50	160.20			
	Culverts			15	6.00	1.20	0.60	64.80			
	Teachers Colony										
	Culverts			5	6.00	1.20	0.60	21.60			
	Ganesh Layout										
	W0098			2	55.00	0.45	0.60	29.70			
	W0423			2	325.00	0.90	0.55	321.75			
	W0306			2	101.00	0.60	0.50	60.60			
	W0308			2	96.00	0.60	0.45	51.84			
	W0310			2	89.00	0.60	0.55	58.74			
	W0314			2	83.00	0.45	0.60	44.82			
	Culverts			20	6.00	1.20	0.60	86.40			
	Srinidhi Layout										
	Culverts			5	6.00	1.20	0.60	21.60			
	MS Palya										
	Culverts			6	6.00	1.20	0.60	25.92			
	For New Drain										
	Simhadri Layout										
	W0285			2	59.00	1.20	0.90	127.44			
	W0289			2	58.00	1.20	0.90	125.28			
	3rd Main road W0283			2	120.00	1.20	0.90	259.20			
	W0257			2	150.00	1.05	0.75	236.25			
	W0277			2	60.00	1.05	0.75	94.50			
							Total	**2502.32**	**Cum**	**204.60**	**511974.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	Providing of Precast slab of 10CM thk for Drains (Data Rate Copy Attached)										
	Basic rate			2072.00							
	Total			**2072.00**	Sqm						
	For New Drains										
	W0285			2	59.00	0.90		106.20			
	W0289			2	58.00	0.90		104.40			
	3rd Main road W0283			2	120.00	0.90		216.00			
	W0257			2	150.00	0.75		225.00			
	W0277			2	60.00	0.75		90.00			
								413.54			
	Qry From Missing and Broken						**Total**	**1155.14**	Sqm	**2072.00**	**2393440.00**
4	Providing of Precast slab of 23CM thk for Culverts (Data Rate Copy Attached)										
	Basic rate			5037.00							
	Total			**5037.00**	Sqm						
	Qry From Missing and Broken			48.00	1.5	0.6		43.20			
							Total	**43.20**	Sqm	**5037.00**	**217599.00**
5	Removing and resetting of kerb stones (Data Rate Copy Attached)										
	Basic rate			118.00							
	Total			**118.00**	**Rmt**						
					300.00			300.00			
								300.00			
				Consider 15% Missing And Broken Kerb							
							45.00				
								255.00	**Rmt**	**118.00**	**30090.00**
6	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)										
	Basic rate			507.00							
	10% AW			50.70							
	Total			**557.70**	**Nos**						
	New Kerbs										
				1	45.00			45.00			
	New drains										
	W0285			2	59.00			118.00			
	W0289			2	58.00			116.00			
	3rd Main road W0283			2	120.00			240.00			
	W0257			2	150.00			300.00			
	W0277			2	60.00			120.00			
								939.00			
					Number=Length/0.45			2086.67			
								2087.00			
							Total	**2087.00**	**Nos**	**557.70**	**1163919.90**
7	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (Volume III , Item No : 8.10 , Page No :56)										
	Basic rate			85.00							
	10% AW			8.50							
	Total			**93.50**	Sqm						
				1	984.00		0.40	393.60			
							Total	**393.60**	Sqm	**93.50**	**36802.00**

Sl No	Description of Items	Chainages	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	ASPHALT ROADS									
8	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead (Volume III , Item No : 3.5 , Page No :16)									
	Basic rate		4.00							
	10% AW		0.40							
	Total		**4.40**	Sqm						
	Sri Balaji Layout									
	W0023		1	140.00	5.30		742.00			
	Varadaraj Nagar									
	W0411		1	60.00	5.00		300.00			
	W0415		1	120.00	5.00		600.00			
	SingapurParadise									
	W0075		1	135.00	5.20		702.00			
	W0085		1	62.00	5.00		310.00			
	W0091		1	56.00	5.00		280.00			
	Simhadri Layout									
	W0257		1	150.00	5.10		765.00			
							3699.00	**Sqm**	**4.40**	**16275.60**
9	Earth work in surface excavation for stripping, seating of bund, Road way by manual means for lowering & levelling the ground for all works other than foundation & depth in Ordinary rock and soft rock upto 300mm depth as per drawing and technical specifications, including setting out, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (Volume I , Item No : 1.2 , Page No : 5)									
	Basic rate		452.00							
	10% AW		45.20							
	Total		**497.20**	**Cum**						
	Sri Balaji Layout									
	W0023		1	140.00	5.30	0.20	148.40			
	Varadaraj Nagar									
	W0411		1	60.00	5.00	0.20	60.00			
	W0415		1	120.00	5.00	0.20	120.00			
	SingapurParadise									
	W0075		1	135.00	5.20	0.20	140.40			
	W0085		1	62.00	5.00	0.20	62.00			
	W0091		1	56.00	5.00	0.20	56.00			
	Simhadri Layout									
	W0257		1	150.00	5.10	0.20	153.00			
	Road Cut Portion									
			6	7.00	1.20	0.20	10.08			
			5	8.00	1.00	0.20	8.00			
			6	1.80	2.00	0.20	4.32			
			2	14.00	0.60	0.20	3.36			
			3	2.00	1.50	0.20	1.80			
			5	5.00	0.60	0.20	3.00			
			6	1.90	2.00	0.20	4.56			
						Total	**774.92**	**Cum**	**497.20**	**385291.00**
10	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (Volume III , Item No : 1.1A , Page No : 3)									
	Basic rate		118.00							
	Loading and unloading with 15.00km lead= 2.00x1.28x15.00 = 38.40		38.40							
	Total		**156.40**							
	Area weightage 10%		15.64							
			172.04	**Cum**						

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					Qty From Earthwork			774.92			
					Qty From Desilt			2502.32			
								3277.24	**Cum**	**172.04**	**563816.00**
11	Wet Mix Macadam (Plant mix method) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (Volume III , Item No : 4.27 , Page No : 24)										
	Basic rate			2394.00							
	10% AW			239.40							
	Total			**2633.40**	**Cum**						
	Sri Balaji Layout										
	W0023			1	140.00	5.30	0.20	148.40			
	Varadaraj Nagar										
	W0411			1	60.00	5.00	0.20	60.00			
	W0415			1	120.00	5.00	0.20	120.00			
	SingapurParadise										
	W0075			1	135.00	5.20	0.20	140.40			
	W0085			1	62.00	5.00	0.20	62.00			
	W0091			1	56.00	5.00	0.20	56.00			
	Simhadri Layout										
	W0257			1	150.00	5.10	0.20	153.00			
	Road Cut Portion										
				6	7.00	1.20	0.20	10.08			
				5	8.00	1.00	0.20	8.00			
				6	1.80	2.00	0.20	4.32			
				2	14.00	0.60	0.20	3.36			
				3	2.00	1.50	0.20	1.80			
				5	5.00	0.60	0.20	3.00			
				6	1.90	2.00	0.20	4.56			
							Total	**774.92**	**Cum**	**2633.40**	**2040675.00**
12	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. Prime Coat over WMM/WBM (Volume III , Item No : 5.1 , Page No : 29)										
	Basic rate			44.00							
	10% AW			4.40							
	Total			**48.40**	**Sqm**						
	Sri Balaji Layout										
	W0023			1	140.00	5.30		742.00			
	Varadaraj Nagar										
	W0411			1	60.00	5.00		300.00			
	W0415			1	120.00	5.00		600.00			
	SingapurParadise										
	W0075			1	135.00	5.20		702.00			
	W0085			1	62.00	5.00		310.00			
	W0091			1	56.00	5.00		280.00			
	Simhadri Layout										
	W0257			1	150.00	5.10		765.00			
	Road Cut Portion										
				6	7.00	1.20		50.40			
				5	8.00	1.00		40.00			
				6	1.80	2.00		21.60			
				2	14.00	0.60		16.80			
				3	2.00	1.50		9.00			
				5	5.00	0.60		15.00			
				6	1.90	2.00		22.80			
							Total	**3874.60**	**Sqm**	**48.40**	**187531.00**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
13	Tack coat on Bituminous surface Providing and applying tack coat with VG - 10 Bitumen using pressure distributor at the rate of 0.20 kg/sqm on the prepared bituminous surface cleaned with mechanical broom (voulme III Pg no - 145 Item - 21 A)										
	Basic rate			13.00							
	10% AW			1.30							
	Total			**14.30**	**Sqm**						
	Profile Correction										
	Sri Balaji Layout										
	W0023			1	140.00	5.30		742.00			
	Varadaraj Nagar										
	W0411			1	60.00	5.00		300.00			
	W0415			1	120.00	5.00		600.00			
	SingapurParadise										
	W0075			1	135.00	5.20		702.00			
	W0085			1	62.00	5.00		310.00			
	W0091			1	56.00	5.00		280.00			
	Simhadri Layout										
	W0257			1	150.00	5.10		765.00			
	Shri Balaji Layout										
	Shri Balaji Layout Main road		**0.15**	1	245.00	7.10		260.93			
	W0008		**0.15**	1	123.95	6.10		113.41			
	W0025		**0.15**	1	86.00	4.50		58.05			
	W0021		**0.15**	1	165.00	6.20		153.45			
	Varadaraj Nagar										
	1st A Cross Road W0248		**0.15**	1	139.00	4.10		85.49			
	W0373		**0.15**	1	25.00	5.10		19.13			
	W0403		**0.15**	1	59.00	5.20		46.02			
	W0407		**0.15**	1	91.00	4.90		66.89			
	Vinayaknagara										
	W0135		**0.15**	1	59.00	4.00		35.40			
	W0139		**0.15**	1	82.00	3.20		39.36			
	W0143		**0.15**	1	65.00	4.00		39.00			
	Simhadri Layout										
	W0285		**0.15**	1	59.00	4.50		39.83			
	W0289		**0.15**	1	58.00	5.00		43.50			
	3rd Main road W0283		**0.15**	1	120.00	4.50		81.00			
	Singapura Paradise										
	W0093		**0.15**	1	119	4.30		76.76			
	W0087		**0.15**	1	123	4.50		83.03			
	W0024		**0.15**	1	176	6.10		161.04			
	W0097		**0.15**	1	178	6.10		162.87			
	cross roads		**0.15**	1	65.30	5.00		48.98			
	Ganesh Layout										
	W0098		**0.15**	1	55.00	4.80		39.60			
	W0423		**0.15**	1	325.00	5.10		248.63			
	W0306		**0.15**	1	101.00	4.10		62.12			
	W0308		**0.15**	1	96.00	4.20		60.48			
	W0310		**0.15**	1	89.00	4.40		58.74			
	W0314		**0.15**	1	83.00	4.40		54.78			
	W0316		**0.15**	1	80.00	4.10		49.20			
	W0318		**0.15**	1	102.00	4.50		68.85			
	For BC										
	Sri Balaji Layout										
	W0023			1	140.00	5.30		742.00			
	Varadaraj Nagar										
	W0411			1	60.00	5.00		300.00			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	W0415			1	120.00	5.00		600.00			
	SingapurParadise										
	W0075			1	135.00	5.20		702.00			
	W0085			1	62.00	5.00		310.00			
	W0091			1	56.00	5.00		280.00			
	Simhadri Layout										
	W0257			1	150.00	5.10		765.00			
	Shri Balaji Layout										
	Shri Balaji Layout Main road			1	245.00	7.10		1739.50			
	W0008			1	123.95	6.10		756.10			
	W0025			1	86.00	4.50		387.00			
	W0021			1	165.00	6.20		1023.00			
	Varadaraj Nagar										
	1st A Cross Road W0248			1	139.00	4.10		569.90			
	W0373			1	25.00	5.10		127.50			
	W0403			1	59.00	5.20		306.80			
	W0407			1	91.00	4.90		445.90			
	Vinayaknagara										
	W0135			1	59.00	4.00		236.00			
	W0139			1	82.00	3.20		262.40			
	W0143			1	65.00	4.00		260.00			
	Simhadri Layout										
	W0285			1	59.00	4.50		265.50			
	W0289			1	58.00	5.00		290.00			
	3rd Main road W0283			1	120.00	4.50		540.00			
	Singapura Paradise										
	W0093			1	119.00	4.30		511.70			
	W0087			1	123.00	4.50		553.50			
	W0024			1	176.00	6.10		1073.60			
	W0097			1	178.00	6.10		1085.80			
	cross roads			1	65.30	5.00		326.50			
	Ganesh Layout										
	W0098			1	55.00	4.80		264.00			
	W0423			1	325.00	5.10		1657.50			
	W0306			1	101.00	4.10		414.10			
	W0308			1	96.00	4.20		403.20			
	W0310			1	89.00	4.40		391.60			
	W0314			1	83.00	4.40		365.20			
	W0316			1	80.00	4.10		328.00			
	W0318			1	102.00	4.50		459.00			
							Total	**24697.79**	**Sqm**	**14.30**	**353179.00**
14	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-40, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (Voulme III Item No - 5.13C Pg no - 34)										
	Basic rate			10298.00							
	10% AW			1029.80							
	Total			**11327.80**	**Cum**						
	Road Cut Portion										
				6	7.00	1.20	0.05	2.52			
				5	8.00	1.00	0.05	2.00			
				6	1.80	2.00	0.05	1.08			
				2	14.00	0.60	0.05	0.84			
				3	2.00	1.50	0.05	0.45			
				5	5.00	0.60	0.05	0.75			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
				6	1.90	2.00	0.05	1.14			
	Sri Balaji Layout										
	W0023			1	140.00	5.30	0.05	37.10			
	Varadaraj Nagar										
	W0411			1	60.00	5.00	0.05	15.00			
	W0415			1	120.00	5.00	0.05	30.00			
	SingapurParadise										
	W0075			1	135.00	5.20	0.05	35.10			
	W0085			1	62.00	5.00	0.05	15.50			
	W0091			1	56.00	5.00	0.05	14.00			
	Simhadri Layout										
	W0257			1	150.00	5.10	0.05	38.25			
	Profile Correction										
	Shri Balaji Layout										
	Shri Balaji Layout Main road		**0.15**	1	245.00	7.10	0.05	13.05			
	W0008		**0.15**	1	123.95	6.10	0.05	5.67			
	W0025		**0.15**	1	86.00	4.50	0.05	2.90			
	W0021		**0.15**	1	165.00	6.20	0.05	7.67			
	Varadaraj Nagar										
	1st A Cross Road W0248		**0.15**	1	139.00	4.10	0.05	4.27			
	W0373		**0.15**	1	25.00	5.10	0.05	0.96			
	W0403		**0.15**	1	59.00	5.20	0.05	2.30			
	W0407		**0.15**	1	91.00	4.90	0.05	3.34			
	Vinayaknagara										
	W0135		**0.15**	1	59.00	4.00	0.05	1.77			
	W0139		**0.15**	1	82.00	3.20	0.05	1.97			
	W0143		**0.15**	1	65.00	4.00	0.05	1.95			
	Simhadri Layout										
	W0285		**0.15**	1	59.00	4.50	0.05	1.99			
	W0289		**0.15**	1	58.00	5.00	0.05	2.18			
	3rd Main road W0283		**0.15**	1	120.00	4.50	0.05	4.05			
	Singapura Paradise										
	W0093		**0.15**	1	119.00	4.30	0.05	3.84			
	W0087		**0.15**	1	123.00	4.50	0.05	4.15			
	W0024		**0.15**	1	176.00	6.10	0.05	8.05			
	W0097		**0.15**	1	178.00	6.10	0.05	8.14			
	cross roads		**0.15**	1	65.30	5.00	0.05	2.45			
	Ganesh Layout										
	W0098		**0.15**	1	55.00	4.80	0.05	1.98			
	W0423		**0.15**	1	325.00	5.10	0.05	12.43			
	W0306		**0.15**	1	101.00	4.10	0.05	3.11			
	W0308		**0.15**	1	96.00	4.20	0.05	3.02			
	W0310		**0.15**	1	89.00	4.40	0.05	2.94			
	W0314		**0.15**	1	83.00	4.40	0.05	2.74			
	W0316		**0.15**	1	80.00	4.10	0.05	2.46			
	W0318		**0.15**	1	102.00	4.50	0.05	3.44			
							Total	**306.55**	**Cum**	**11327.80**	**3472591.00**
15	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site,laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (Volume III , Item No : 5.16C , Page No : 36)										
	Basic rate			11531.00							
	10% AW			1153.10							
	Total			**12684.10**	**Cum**						
	For BC										
	Sri Balaji Layout										

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount	
	W0023			1	140.00	5.30	0.04	29.68				
	Varadaraj Nagar											
	W0411			1	60.00	5.00	0.04	12.00				
	W0415			1	120.00	5.00	0.04	24.00				
	SingapurParadise											
	W0075			1	135.00	5.20	0.04	28.08				
	W0085			1	62.00	5.00	0.04	12.40				
	W0091			1	56.00	5.00	0.04	11.20				
	Simhadri Layout											
	W0257			1	150.00	5.10	0.04	30.60				
	Shri Balaji Layout											
	Shri Balaji Layout Main road			1	245.00	7.10	0.04	69.58				
	W0008			1	123.95	6.10	0.04	30.24				
	W0025			1	86.00	4.50	0.04	15.48				
	W0021			1	165.00	6.20	0.04	40.92				
	Varadaraj Nagar											
	1st A Cross Road W0248			1	139.00	4.10	0.04	22.80				
	W0373			1	25.00	5.10	0.04	5.10				
	W0403			1	59.00	5.20	0.04	12.27				
	W0407			1	91.00	4.90	0.04	17.84				
	Vinayaknagara											
	W0135			1	59.00	4.00	0.04	9.44				
	W0139			1	82.00	3.20	0.04	10.50				
	W0143			1	65.00	4.00	0.04	10.40				
	Simhadri Layout											
	W0285			1	59.00	4.50	0.04	10.62				
	W0289			1	58.00	5.00	0.04	11.60				
	3rd Main road W0283			1	120.00	4.50	0.04	21.60				
	Singapura Paradise											
	W0093			1	119.00	4.30	0.04	20.47				
	W0087			1	123.00	4.50	0.04	22.14				
	W0024			1	176.00	6.10	0.04	42.94				
	W0097			1	178.00	6.10	0.04	43.43				
	cross roads			1	65.30	5.00	0.04	13.06				
	Ganesh Layout											
	W0098			1	55.00	4.80	0.04	10.56				
	W0423			1	325.00	5.10	0.04	66.30				
	W0306			1	101.00	4.10	0.04	16.56				
	W0308			1	96.00	4.20	0.04	16.13				
	W0310			1	89.00	4.40	0.04	15.66				
	W0314			1	83.00	4.40	0.04	14.61				
	W0316			1	80.00	4.10	0.04	13.12				
	W0318			1	102.00	4.50	0.04	18.36				
								Total	**749.69**	**Cum**	**12684.10**	**9509166**
16	Road Marking with Hot Applied Thermoplastic Compound with Re flectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. (Volume III , Item No : 8.15 , Page No : 59)											
	Basic rate			478.00								
	10% AW			47.80								
	Total			**525.80**	**Sqm**							
	For BC											
	Sri Balaji Layout											
	W0023			2.50	140.00	0.10		35.00				
	Varadaraj Nagar											
	W0411			2.50	60.00	0.10		15.00				
	W0415			2.50	120.00	0.10		30.00				

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	SingapurParadise										
	W0075			2.50	135.00	0.10		33.75			
	W0085			2.50	62.00	0.10		15.50			
	W0091			2.50	56.00	0.10		14.00			
	Simhadri Layout										
	W0257			2.50	150.00	0.10		37.50			
	Shri Balaji Layout										
	Shri Balaji Layout Main road			2.50	245.00	0.10		61.25			
	W0008			2.50	123.95	0.10		30.99			
	W0025			2.50	86.00	0.10		21.50			
	W0021			2.50	165.00	0.10		41.25			
	Varadaraj Nagar										
	1st A Cross Road W0248			2.50	139.00	0.10		34.75			
	W0373			2.50	25.00	0.10		6.25			
	W0403			2.50	59.00	0.10		14.75			
	W0407			2.50	91.00	0.10		22.75			
	Vinayaknagara										
	W0135			2.50	59.00	0.10		14.75			
	W0139			2.50	82.00	0.10		20.50			
	W0143			2.50	65.00	0.10		16.25			
	Simhadri Layout										
	W0285			2.50	59.00	0.10		14.75			
	W0289			2.50	58.00	0.10		14.50			
	3rd Main road W0283			2.50	120.00	0.10		30.00			
	Singapura Paradise										
	W0093			2.50	119.00	0.10		29.75			
	W0087			2.50	123.00	0.10		30.75			
	W0024			2.50	176.00	0.10		44.00			
	W0097			2.50	178.00	0.10		44.50			
	cross roads			2.50	65.30	0.10		16.33			
	Ganesh Layout										
	W0098			2.50	55.00	0.10		13.75			
	W0423			2.50	325.00	0.10		81.25			
	W0306			2.50	101.00	0.10		25.25			
	W0308			2.50	96.00	0.10		24.00			
	W0310			2.50	89.00	0.10		22.25			
	W0314			2.50	83.00	0.10		20.75			
	W0316			2.50	80.00	0.10		20.00			
	W0318			2.50	102.00	0.10		25.50			
							Total	**923.06**	**Sqm**	**525.80**	**485347.00**
17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (Volume I , Item No : 2.1.4 , Page No : 15)										
	Basic rate			5926.00							
	10% AW			592.60							
	Total			**6518.60**	**cum**						
	For New Drain										
	Simhadri Layout										
	W0285			2	59.00	1.20	0.10	14.16			
	W0289			2	58.00	1.20	0.10	13.92			
	3rd Main road W0283			2	120.00	1.20	0.10	28.80			
	W0257			2	150.00	1.05	0.10	31.50			

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	W0277			2	60.00	1.05	0.10	12.60			
	For Resetting of Kerb			1	300.00	0.20	0.075	4.50			
	For New kerb			2	59.00	0.20	0.075	1.77			
				2	58.00	0.20	0.075	1.74			
				2	120.00	0.20	0.075	3.60			
				2	150.00	0.20	0.075	4.50			
				2	60.00	0.20	0.075	1.80			
	For Flagging Coarse										
	Bottom			2	150.00	0.20	0.10	6.00			
	Top			2	150.00	0.20	0.10	6.00			
							Total	**130.89**	**Cum**	**6518.60**	**853220.00**
19	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Volume I , Item No : 2.2.1.1 , Page No : 56)										
	Basic rate			6231.00							
	Shuttering 5%			311.55							
	Sub Total-1			6542.55							
	10% AW			654.26							
	Total			**7196.81**	**Cum**						
	For Raft										
	0.15+0.60+0.15=0.90			2	59.00	0.90	0.15	15.93			
				2	58.00	0.90	0.15	15.66			
				2	120.00	0.90	0.15	32.40			
				2	150.00	0.90	0.15	40.50			
				2	60.00	0.90	0.15	16.20			
	For Wall										
				4	59.00	0.15	0.60	21.24			
				4	58.00	0.15	0.60	20.88			
				4	120.00	0.15	0.60	43.20			
				4	150.00	0.15	0.45	40.50			
				4	60.00	0.15	0.45	16.20			
							Total	**262.71**	**Cum**	**7196.81**	**1890673.00**
18	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (Volume III , Item No : 9.3 , Page No : 71) **[Issue Rate as on 07.04.2022]**										
	Basic rate			94295.00							
	10% AW			9429.50							
	Total			**103724.50**	**Tonne**						
					Cum	**Kg/cum**		Tonne			
	Consider 60kg/cum				**262.71**	**60.00**		15.76			
							Total	**15.76**	**Tonne**	**103724.50**	**1634967.80**

Sl No	Description of Items	Chainages		No	Length	Width	Depth	Quantity	Unit	Rate	Amount
19	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications (Volume II , Item No : 6.33 , Page No :17)										
	Basic rate			1067.00							
	10% AW			106.70							
	Total			**1173.70**	Sqm						
	For Flagging coarse										
				2	150.00		0.15	45.00			
							Total	**45.00**	Sqm	**1173.70**	**52817.00**
										Total Construction Cost	**26249714.30**
										Add 12% GST Charges	**3149965.72**
										Add DPR and PMC Charges-2%	**600000.00**
										Sub Total - 1	**29999680.02**
										Miscellaneous Charges	**319.98**
										GRAND TOTAL	**30000000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2022-23 , and Data Rates.

PREETHI CAD CONSULTING ENGINEERS PVT LTD BANGALORE

Consultants:

PREETHI CAD CONSULTING PVT LTD

Assistant Engineer
BBMP

Asst. Executive Engineer
BBMP

Executive Engineer
BBMP